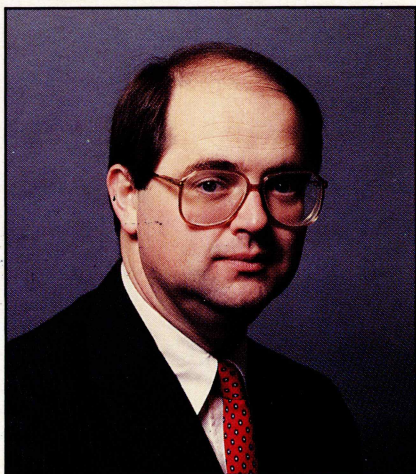


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1989 ANNUAL REPORT

ETERA
Environmental Improvement and Energy Resources Authority



*G. Tracy Mehan III
Director
Missouri Department of Natural Resources*

Dear Citizens:

The Environmental Improvement and Energy Resources Authority (EIERA) has always made an important contribution in the department's efforts to protect Missouri's environment. Through its resources, the EIERA strives to inform, educate, and provide financial assistance.

During the past five years, the authority has funded several innovative projects. These include the Household Hazardous Waste Project, which educates citizens on the hazards of household chemicals. The Missouri Assistance Project provides technical assistance to rural communities experiencing problems with sewage, wastewater, and solid-waste projects. The Wright County soil and water project is a unique program that teaches landowners how to prevent soil erosion and protect water quality.

Since 1974, communities and companies have received almost \$2 billion in tax-exempt interest bonds, low-cost loans, and EIERA grants to develop projects that protect water quality or purchase equipment to prevent pollution.

The Authority also has published several statewide studies focusing on recycling and resource recovery, small-quantity hazardous waste generators, and hazardous-waste treatment facilities.

In the past three years, the Authority staff has traveled extensively to provide information and technical assistance to Missouri communities and businesses. Annually, the staff responds to more than 350 public inquiries concerning waste management issues.

The EIERA continues to be in the forefront of environmental issues that are vital to the well being of all Missourians.

Sincerely,

DEPARTMENT OF NATURAL RESOURCES

A handwritten signature in black ink that reads "G. Tracy Mehan III". The signature is stylized with a large, sweeping "G" and a long, horizontal flourish at the end.

G. Tracy Mehan III
Director



The Pinnacles is a unique rock formation near Highway 63, just north of Columbia.

ST. LOUIS COUNTY LIBRARY
MISSOURI DEPOSITORY

JUL 31 1990

The 1989 Annual Report of the Environmental Improvement and Energy Resources Authority is published as a service to the citizens of the state of Missouri, and as a public record of the activities and programs administered during fiscal year July 1, 1988, through June 30, 1989.

EIERA
Post Office Box 744
Jefferson City, MO 65102
(314) 751-4919

Editorial Staff: Writing, editing, and publication coordination were provided by Kenneth Seeney, EIERA. **Photographs:** Photography was provided by Kenneth Seeney, EIERA; Nick Decker, Jim Vandike, and Bob Krager, Missouri Department of Natural Resources; Marsha Boone, Nixa, Mo.; Jim Visser, St. Louis; City of Columbia; Household Hazardous Waste Project, Springfield; Monsanto Company, St. Louis; and Regional Recycling Program, Kansas City.

General Counsel
Henry F. Luepke, Jr.
Angela Braly
Beverly Marcin
Lewis, Rice & Fingersh
611 Olive Street
St. Louis, MO 63101

Cover: *One of the most beautiful and scenic areas in the United States is Pulltite Spring Branch in Shannon County.*

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A Message from the Chairman



In the past year, Missouri's environmental agenda has focused on recycling and waste minimization. The Environmental Improvement and Energy Resources Authority (EIERA) has been a leader in supporting and initiating activities in these areas.

The Missouri Resource Recovery Feasibility and Planning Study, published in 1987, continues to have an impact on waste management issues. In 1990, several legislative initiatives include proposals for solid waste districts and landfill taxes. These two proposals were major recommendations in the EIERA's seven-volume study.

Other activities in solid waste management included cosponsorship of a Midwest conference on recycling and product packaging. This conference provided a unique forum. Corporate managers representing companies that package paper and plastic products shared ideas with government officials responsible for the management and disposal of plastic and solid wastes.

Hazardous waste reduction also was a major focus this past year. The authority, in cooperation with the Missouri Water Pollution Control Association and Associated Industries of Missouri, cosponsored a one-day seminar and eight regional workshops on waste minimization. These workshops provided information to help companies and businesses develop successful waste minimization programs.

Beginning its third year, the Springfield-based Household Hazardous Waste Project (HHWP) continues to be a successful program in southwest Missouri. This past year, HHWP received a \$115,000 EIERA grant that will enable it to incorporate household hazardous waste information into publications currently

distributed by various Missouri agencies.

Last April, Governor Ashcroft announced the availability of \$14 million in low-cost loans to finance wastewater and sewage treatment projects through the EIERA's Grant Anticipation Note (GAN) program. Since 1982, the GAN program has provided \$200 million in low-cost loans to more than 100 Missouri communities and districts.

Unfortunately, federal grant programs administered by the U.S. Environmental Protection Agency (EPA) will be discontinued. The GAN program and similar direct loan programs will be replaced by a single State Revolving loan Fund (SRF), administered by individual states, in cooperation with EPA.

The absence of a state loan program could curtail construction of sewer and wastewater treatment projects. To replace the previous grant program, the EIERA, Missouri Clean Water Commission, Missouri Department of Natural Resources, EPA, and other state agencies are working together to establish a Missouri SRF. This program will be available to Missouri communities and sewer districts within the next 12 months.

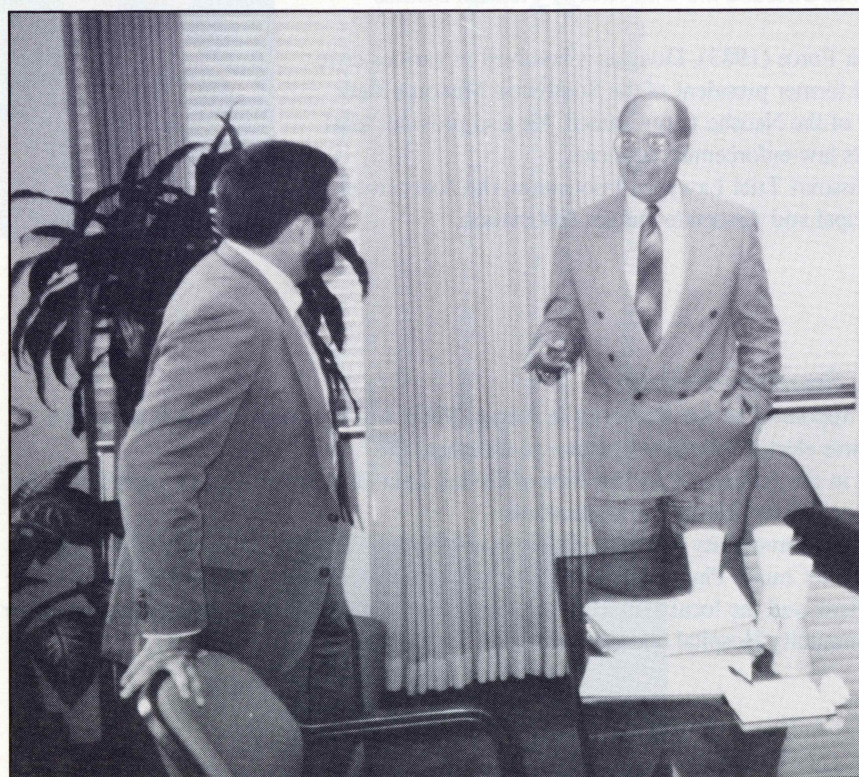
The Authority and its staff appreciate the support received from various organizations and agencies. We look forward to the opportunities and challenges that 1990 will offer.

Sincerely,

ENVIRONMENTAL
IMPROVEMENT
AND ENERGY RESOURCES
AUTHORITY

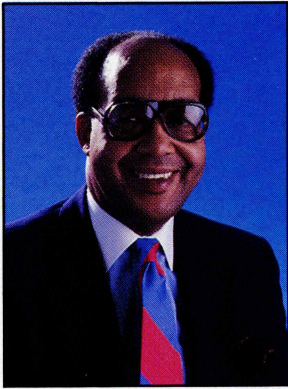
William H. Clark
Chairman

EIERA Board Meetings — Where the “Rubber Meets the Road”



The governor appoints the five-member authority, which meets six times a year at various locations around the state. The authority staff, which consists of a director and four staff members, is located in Jefferson City.

Members of the EIERA



William H. Clark, *Chairman*

William Clark has been president of the Urban League of Greater Kansas City since 1977. The Urban League offers programs that focus on career education, community planning and research, employment, and training.

Clark is past president of the United Way Area Executives Association and serves on several boards, including the Greater Kansas City Chamber of Commerce, Truman Medical Center, NAACP, Starlight Theatre, and Kansas City Power and Light. Additionally, he has been a member of the Advisory Council-National Alliance of Business and the Private Industry Council.

Clark earned a bachelor of arts degree in political science and economics from Indiana University. He received a master of divinity degree from Central Theological Seminary, Indiana, and the doctor of divinity degree from Central America University in Missouri. He holds the doctor of laws degree from Monrovia College, Liberia, and has studied at the Harvard Graduate School of Business.

Clark was appointed to the Authority in January 1987. He and his wife have one son; they reside in Lee's Summit.

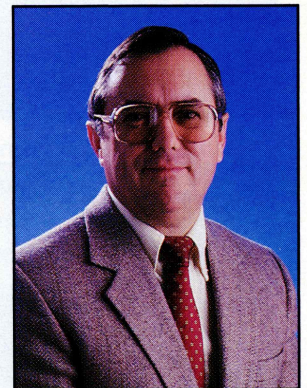
H. Dwight Douglas, *Vice Chairman*

Dwight Douglas is a partner in the Neosho law firm of Douglas, Douglas, and Johnson. He was appointed to the Authority for a three-year term by Gov. John Ashcroft.

Douglas received his bachelor of arts and juris doctorate degrees from the University of Missouri-Columbia. A Distinguished Military Graduate, he was awarded the U.S. Army's Vietnam Service Medal for meritorious service in Thailand.

A former member of the Governor's Dioxin Task Force (1983), Douglas is involved in various civic and community activities. He is a past member and former president of the Southwest Missouri State University Board of Regents and a former member of the Neosho City Council. He also provides legal advice for a drug-abatement organization that assists law-enforcement agencies.

Douglas is a member of the Missouri Bar, the Missouri Trial Lawyers Association, the Association of Trial Lawyers of America, and the Missouri Municipal and Associate Judges Association.

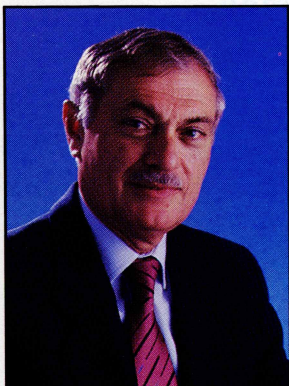


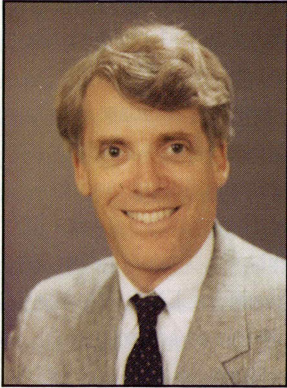
David R. Goller, *Secretary-Treasurer*

David Goller was appointed to the Authority in August 1987, by Gov. John Ashcroft to serve a three-year term. He was elected secretary-treasurer in October, 1987.

Goller is a partner in the Jefferson City law firm of Goller, Lake & Kuebler. He is a member of the American, Missouri, and Cole County bar associations.

Involved in numerous community activities, Goller is a member of the Jefferson City Chamber of Commerce and the Cole County Planning Commission. He also serves on the board of directors of the Exchange National Bank and the local chapter of the American Red Cross. He is a past board member of the Memorial Community Hospital and the Jefferson City YMCA.





Kenneth S. Kranzberg, Member

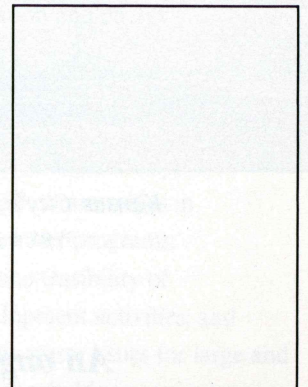
Kenneth S. Kranzberg was appointed to a three-year term by Gov. John Ashcroft and will serve on the Authority until Jan. 22, 1992.

Since 1978, Kranzberg has been president of the St. Louis-based Northwestern Bottle Co. Northwestern is the largest distributor of glass and plastic bottles in the United States, with offices and warehouses in 12 cities. He is past president and board chairman for the National Association of Container Distributors.

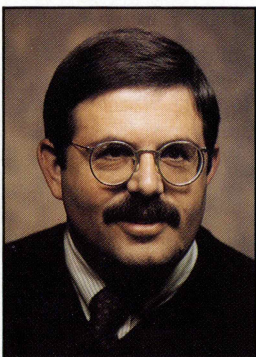
A graduate of the College of William and Mary in Virginia, Kranzburg also served in the U.S. Army as a second lieutenant.

Kranzburg is active in civic and community activities and served as a board member for several St. Louis-area companies and charitable institutions. He, his wife, and two daughters live in St. Louis County.

Fifth Authority Member, To Be Appointed



EIERA Staff



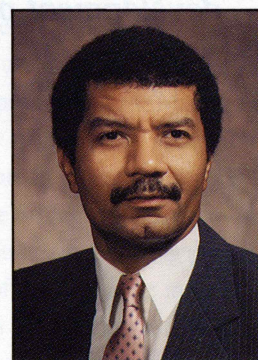
Stephen M. Mahfood
Director



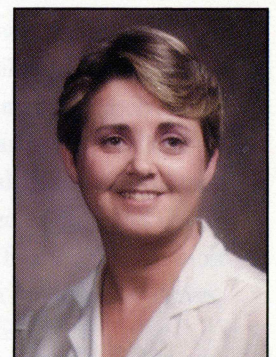
Marie Colvin
Administrative Assistant



Tom Welch
*Asst., Planning &
Project Development*



Kenneth Seeney
*Asst., Planning &
Public Affairs*



Faye Alberts
Secretary

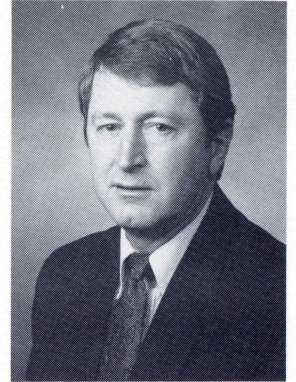
John D. Schaffer, *Member*

John David Schaffer was appointed to the Authority by Gov. John Ashcroft and confirmed by the Missouri Senate on January 17, 1990.

Schaffer owns and operates a family farm near LaGrange; he raises beef cattle and grows corn, soybeans, and wheat. He is also president of Brumbaugh, Inc., a family-owned company that sells fertilizer, seed, and agricultural chemicals.

A graduate of the University of Missouri-Columbia, Schaffer earned a bachelor of science degree in agriculture.

Schaffer has been active in local and state organizations for several years. He is vice president of the Lewis County Farm Bureau and secretary-treasurer of the Missouri Soybean Merchandising Council. He is a member of the Missouri Farm Bureau, Missouri Corn Growers Association, and the Lewis County Port Authority.



This insert is printed on recycled paper.

The EIERA —

An Overview of its History and Purpose



Kansas City's first curbside recycling program was a pilot project funded by EIERA.

An ongoing task of the EIERA is to develop alternative methods of financing for environmental programs and energy-development projects.

The Environmental Improvement and Energy Resources Authority (EIERA), an independent five-member agency, was created by the Missouri legislature in 1972. The authority's mandate is to provide low- or no-cost financing for projects that would reduce, control, and prevent environmental pollution, and to encourage research and development of energy alternatives while promoting economic development.

Legislation in the early 1980s transferred the EIERA to the Missouri Department of Natural Resources and added major new responsibilities to the authority's operations.

Although the EIERA's traditional method of financing has been through issuance of tax-exempt-interest industrial revenue bonds, the authority's mandate is broad. It ranges from financing projects through tax-exempt bonds to making low-cost loans and offering construction financing, to conducting studies and also providing technical assistance in the field. EIERA staff also meets with organizations and public entities to discuss available programs that would be beneficial to their goals and objectives.

Whether it's a large or small business, a city, county or municipality, port or bridge authority, the EIERA can provide assistance for pollution-control or energy-development projects.

The EIERA authorized its first bond project in December 1973 and since that date has issued tax-exempt bonds, notes, and commercial paper in excess of \$1.8 billion. The bonds are repayable solely by the entities that construct the projects; the state of Missouri does not guarantee repayment. Since the authority issues the bonds and because the bonds meet certain requirements in the Internal Revenue Code, interest from the bonds is exempt from federal income taxes.

The EIERA's ability to offer tax-free financing is now substantially affected by prevailing interest rates and the Tax Reform Act passed by Congress in 1986. Until the financial community fully adapts to these changes, it will continue to be difficult to create a workable atmosphere for tax-exempt project financings.

The EIERA has also developed a number of innovative programs and projects. Two of these have been developed to assist communities in meeting wastewater-treatment and sanitary sewer guidelines. The Grant Anticipation Note (GAN)

program, which began in 1982, provides low-cost construction financing for projects that will receive funding from the U.S. Environmental Protection Agency (EPA). The second program, known as the Construction Advance Program (CAP), also provides low-cost construction financing for communities that have arranged Farmers Home Administration loans.

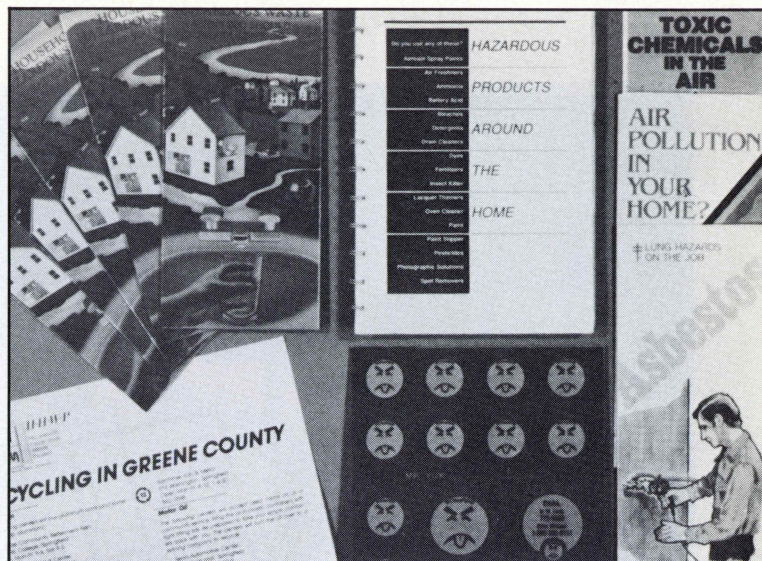
In both cases, the EIARA issues bonds, and then loans the proceeds to applicants for construction costs. This simplifies the initial project phase and aids in reducing overall project costs. If managed as in the past, these arrangements become either low-interest or interest-free loans.

Unfortunately, federal grant programs administered by the EPA will be discontinued. The GAN and CAP programs and similar direct loan programs will be replaced by a single State Revolving loan Fund (SRF), administered by individual states, in cooperation with EPA.

The EIARA, Missouri Clean Water Commission, Missouri Department of Natural Resources, EPA, and other state agencies are working together to establish a Missouri SRF. It is anticipated that this program will be available to communities and sewer districts during the first three months of 1990.

Additional programs and projects that have been developed include:

- A statewide waste exchange to assist Missouri manufacturers;
- Funding a household hazardous waste education program for southwest Missouri;



Brochures published by EIARA's Household Hazardous Waste Project are distributed statewide.

- A seven-volume statewide study of solid-waste issues, and recommendations for possible implementation at the state, regional, or local levels;
- A statewide survey to determine the public's views on solid-waste-management issues;
- An education and training program for Missouri businesses that encourages waste minimization and energy conservation;
- Funding of an innovative soil and water conservation demonstration project;
- Funding a pilot recycling project in Kansas City;
- Funding a program to assist small communities in managing their water and wastewater programs;
- Funding local studies to determine feasibility of environmental and energy-development activities; and
- Conducting studies on hazardous-waste issues for large and small-quantity generators and households.

An ongoing task of the EIARA is to develop alternative methods of financing for environmental programs and energy-development projects.

Financing may be obtained for solid-waste, sewage, and water-pollution control projects and facilities. Also considered for assistance are projects that focus on energy conservation through the use of wind, water, and solar power, synthetic fuels, and energy produced from Missouri coal, heavy oil, and tar sands. Other requirements are established as programs develop.

One important advantage of EIARA financing is that most programs are arranged through low-cost funding alternatives, thereby substantially reducing project costs.

Because of the legislative mandate to provide assistance, the EIARA does not perform a regulatory role. The Authority's financial programs and assistance are, therefore, available only upon request. The Authority is completely self-supporting, and the fees it charges to applicants for financing are sufficient to pay the authority's operating expenses.



EIARA has assisted the St. Louis-based Monsanto Company on several projects.

NEWSPAPER RECYCLING



Government and industry must develop end markets for discarded newspapers.

in-plant waste-reduction programs for businesses.

The Authority also has maintained its Grant Anticipation Program (GAN) and Construction Advance Program (CAP). These programs have provided ongoing construction financing for those districts or communities receiving EPA water and sewer grants or Farmers Home Administration loans and grants; the CAP program continued as part of the **\$15,000,000** 1988 issuance. This year's GAN program was issued in the amount of **\$14,850,000**.

The Authority also invested a great deal of staff time and legal expertise in developing a portion of the State Revolving loan Fund (SRF) program. This program is expected to meet water-

wastewater financing needs into the 21st century and could eventually yield over \$1 billion in benefits to Missouri.

Conferences and Seminars

The EIARA developed or co-sponsored three major conferences and EIARA staff participated in two more.

The annual Partnership for Economic Growth and the Environment conference highlighted efforts to blend economic and environmental interests. The Authority provided **\$2,000** for this Missouri conference.

As a follow-up to the successful Waste Minimization Through Energy Conservation Workshops, the Missouri Water Pollution Control Association, in cooperation with the EIARA, sponsored a statewide one-day workshop on how to

organize and implement a successful waste minimization program.

Eight midwestern states and the Missouri EIARA co-sponsored a two-day conference to discuss local and national trends in solid waste and product packaging. This seminar focused on package design and disposal, consumer perspectives, and waste reduction and reuse.

EIARA also provided assistance to the Missouri Waste Control Coalition. In addition to helping organize the annual conference, staff members chaired the Awards Committee and Publicity Committee.

Staff Activities

Other involvement by the authority and its staff have been extensive.

The Authority staff has been active in promoting legislation and policy to implement the 1988 solid waste study. The passage of House Bill 438 was an important part of this development. The EIARA also assisted Governor Ashcroft's staff in the development of a statewide resource recovery policy.

Another noteworthy project included developing a cooperative venture between the Doe Run Company and the city of Springfield to implement a battery recycling program.

Other staff involvement included a wide range of activities:

1. Appointment of the director to several councils.
 - Anthony Commission on Public Finance
 - Board of the Midwest Recycling Coalition, and
 - Board of the Missouri Waste

Control Coalition and Awards
Chairman

2. Staff participation in:

- Great Lakes Recycling Officials
- National Waste Minimization Roundtable
- Consortium of Hazardous Waste Siting Authorities
- Women in Energy
- Public Relations Society of America (PRSA), and
- Mid-Missouri Chapter, PRSA

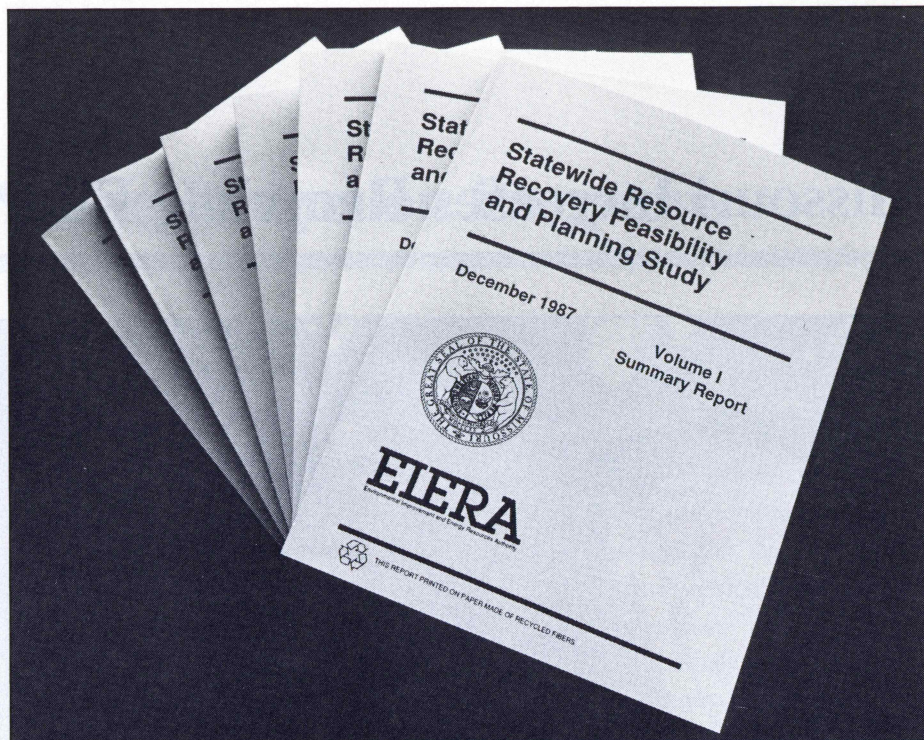
The Authority also received an award from the Missouri Division of Energy for its "Waste Minimization Through Energy Conservation" project.

Upcoming Activities

In the coming year, the EIERA will concentrate on continuing or developing these projects:

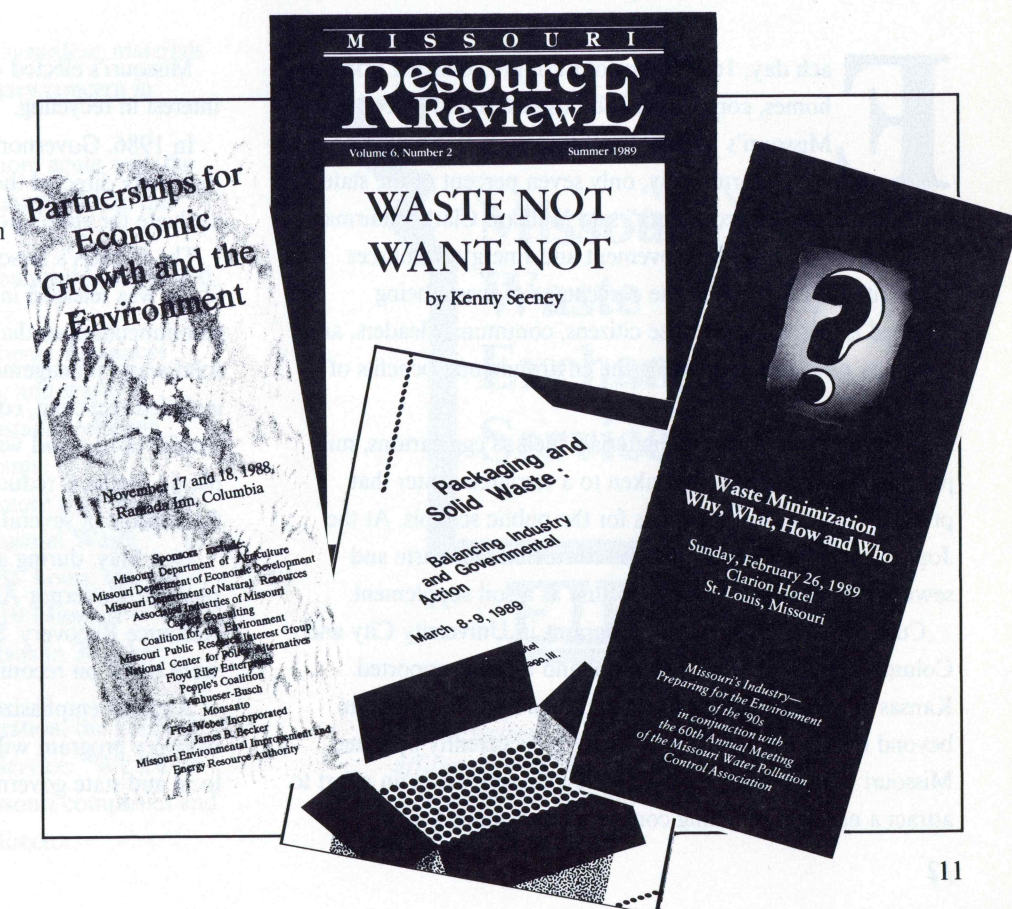
- solid waste/resource recovery study implementation;
- development of innovative environmental financing programs;
- implementation of the State Revolving loan Fund (SRF) program in cooperation with the Clean Water Commission;
- on-going development of the waste minimization/waste-exchange program;
- expansion of the household hazardous waste project;
- full implementation of the soil and water conservation demonstration project; and
- promotion of a solid-waste financing program.

These projects will form the core of EIERA activities in the coming year. However, other projects may be initiated and developed as required.



EIERA's seven-volume solid-waste study was a key factor in the passage of several solid-waste management laws.

Annually, EIERA cosponsors several educational conferences.



Missouri Increases Recycling Efforts



*Governor John Ashcroft
assists city employees at a
Columbia curbside
collection site.*

Each day, 16,000 tons of trash are collected from homes, companies, and businesses and placed in Missouri's bulging landfills.

"Unfortunately, only seven percent of the state's waste is recycled or recovered," said William Clark, chairman of the Environmental Improvement and Energy Resources Authority (EIERA). "But the percentage of waste being recycled is increasing because citizens, community leaders, and company officials are realizing the environmental benefits of recycling."

In Springfield, discarded materials such as egg cartons, milk jugs, and plastic tubing, are taken to a resource center that produces educational materials for the public schools. At the Joplin landfill, a 50-foot cylinder converts solid waste and sewage into compost, suitable for use as a soil supplement.

Curbside source separation programs in University City and Columbia continue to be successful and locally supported. Kansas City officials plan to expand their curbside program beyond the six neighborhoods where it is currently operated. Missouri officials have received statewide support in an effort to attract a national recycling conference to Kansas City.

Missouri's elected officials are responsible for this renewed interest in recycling.

In 1986, Governor John Ashcroft and the Missouri General Assembly directed the EIERA to conduct a year-long study to evaluate the state's potential for resource recovery.

The EIERA's Resource Recovery Feasibility and Planning Study was released in January 1988. The study listed 18 recommendations that need to be implemented to improve the solid waste management system. These recommendations included recycling, composting, curbside source separation, landfill taxes, solid waste districts, waste-to-energy projects, and plastic products reduction. The study has been a key factor in the passage of several solid-waste management laws.

Last May, during a two-day statewide tour of recycling projects, Governor Ashcroft announced Missouri's Policy on Resource Recovery. Several major statements in the policy were based on recommendations in the EIERA study.

Ashcroft emphasized that a successful recycling and resource recovery program will require total involvement from citizens, local and state governments, and private industry.

EIERA Supports Waste-Reduction Programs

Companies that initiate recycling programs can reduce disposal and transportation costs and protect the environment from harmful substances.

Alternatives to land disposal of hazardous materials and industrial wastes is a primary concern in Missouri.

This concern has become more acute with the passage of new and strict state and federal laws that ban the disposal of hazardous waste.

Companies and businesses are being encouraged to reuse and recycle waste and reduce waste at the source.

The Environmental Improvement and Energy Resources Authority (EIERA) has supported recycling and waste reduction efforts by providing technical assistance, offering educational opportunities, and awarding grants.

From 1982-86, the EIERA contributed more than \$40,000 to the operational costs of the Missouri Industrial Waste Exchange (MIWE). The MIWE, based in St. Louis, was the nation's first waste exchange and it listed 119 Missouri businesses in 39 cities and also had subscribers in 30 other states.

In 1986, after MIWE terminated its operation, the EIERA established the Missouri Waste Exchange Service. "We felt an ongoing need to provide this service to Missouri companies and businesses," said Steve Mahfood, EIERA director.

The Missouri service provides its 300 subscribers opportunities to list available wastes or obtain valuable materials from other companies.

"When companies began to look at their wastes as potential profit centers, rather than unavoidable liabilities, they may be surprised at the opportunities," said Tom Welch, EIERA assistant for planning and project development.

In 1988, in cooperation with Associated Industries of Missouri, the EIERA cosponsored eight regional workshops titled "Successful Strategies for Waste Reduction." More than 260 companies and businesses were represented at the eight workshops.

This year, in cooperation with the Missouri Water Pollution Control Association and other agencies, the EIERA cosponsored a waste reduction seminar in St. Louis. The one-day seminar "Waste Minimization: Why, What, How and Who" attracted more than 75 companies.



The Missouri Waste Exchange Service is affiliated with the Industrial Materials Exchange Service and distributes its catalogues.

EIERA Programs and Financial Services



This is an example of the type of bond issued by the EIERA.

The Environmental Improvement and Energy Resources Authority assists Missouri communities, as well as public and private companies, in financing projects at the lowest possible cost. To meet this objective, the Authority's mandate is broad and includes financing projects through tax-exempt bonds, conducting studies, and providing technical assistance in the field.

The EIERA can offer assistance through several types of tax-exempt and taxable financing; these programs are regulated by federal and state laws and may consist of the following:

- Issuance of Commercial Paper;
- Issuance of Floating or Fixed-Rate Notes;
- Issuance of Short- to Intermediate-Term Bonds;
- Issuance of Long-Term Bonds;
- Pooled Financings; and
- Issuance of Taxable Bonds.

The EIERA also provides low-cost construction financing for water- and wastewater-treatment facilities and sanitary sewer projects that are expecting to receive funds from the U.S. Environmental Protection Agency (EPA) or Farmer's Home Administration.

Also, in cooperation with EPA, and other state agencies, the EIERA has developed a State Revolving loan Fund (SRF). The SRF will replace several EPA direct-loan programs and provide monies to communities and districts for construction of wastewater and sewage-treatment projects.

The EIERA continues to develop alternative financing methods, provide direct loans for feasibility studies, and issue small project grants. Along with direct financial assistance provided at the state level, Missouri's application of the sales/use tax exempts all air- and water-pollution control machinery and equipment from sales/use tax liabilities.

In addition to the state's efforts to reduce the cost of environmental compliance, Missouri's private financial institutions are encouraged to give special consideration to loans for pollution-control equipment, facilities, and projects.

Projects Financed in Fiscal Year 1989

Bond or Bond-Related Financings

| | <u>Location</u> | <u>Amt. Financed</u> |
|------------------------------------|----------------------------------|----------------------|
| Monsanto Company Refunding | St. Louis, MO | \$ 7,950,000 |
| Grant Anticipation Note Program | Various Municipalities Statewide | 14,850,000 |
| St. Joseph Light & Power Refunding | St. Joseph, MO | 5,600,000 |
| TOTAL: | | <u>\$28,400,000</u> |

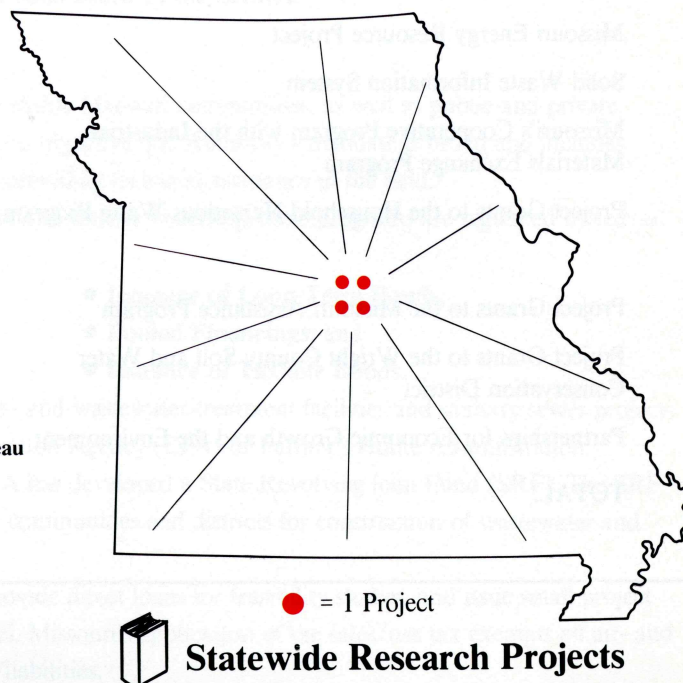
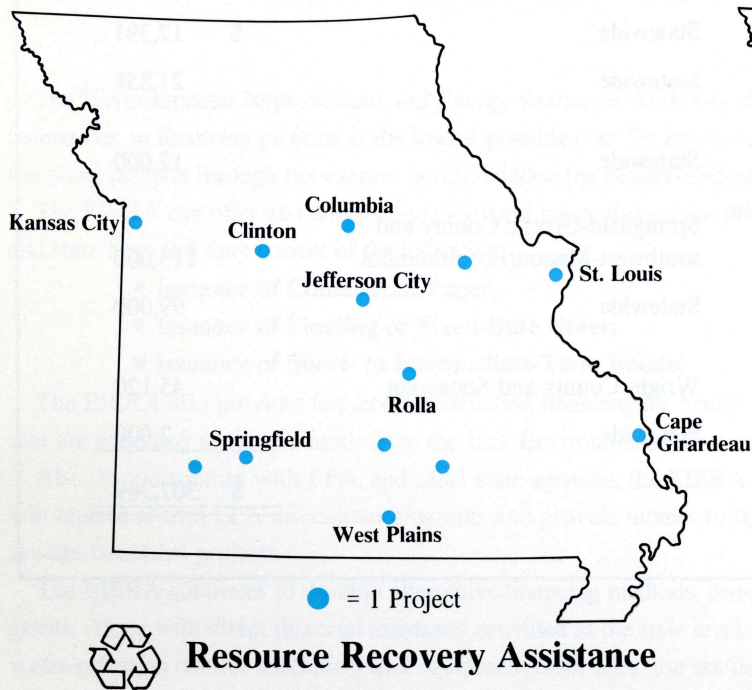
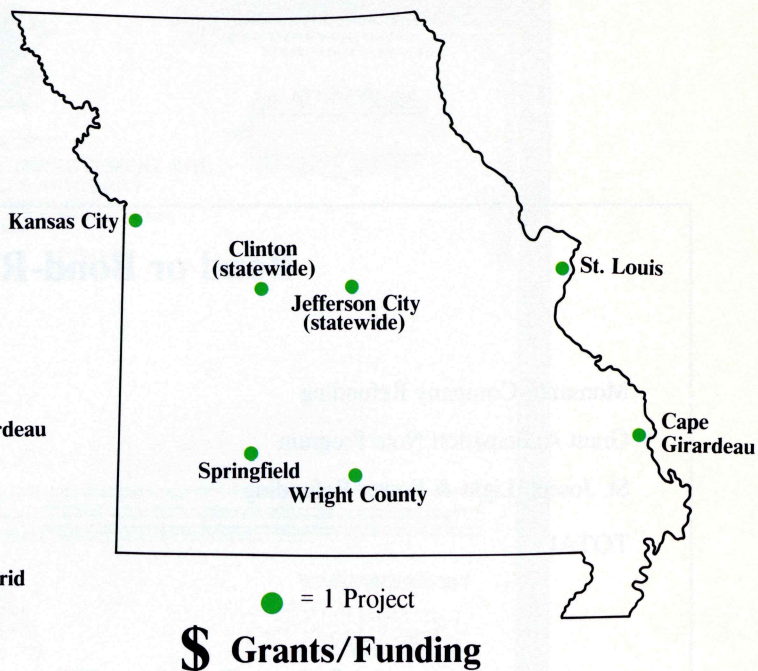
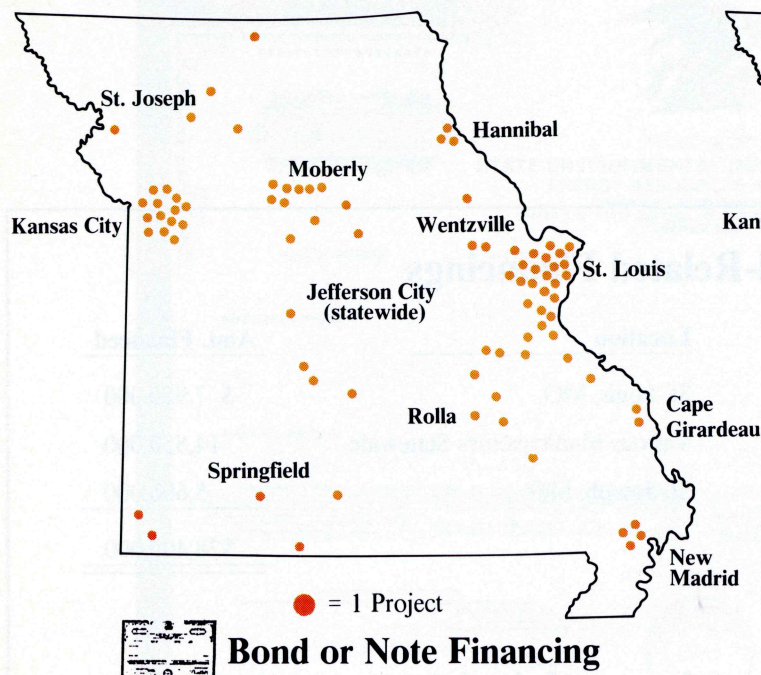
Other Project Financings and Assistance

| | <u>Location</u> | <u>Amount</u> |
|---|---|-------------------|
| Missouri Energy Resource Project | Statewide | \$ 12,391 |
| Solid Waste Information System | Statewide | 21,858 |
| Missouri's Cooperative Program with the Industrial Materials Exchange Program | Statewide | 12,000 |
| Project Grants to the Household Hazardous Waste Program | Springfield-Greene County and 23 southwest-Missouri communities | 115,000 |
| Project Grants to the Missouri Assistance Program | Statewide | 99,000 |
| Project Grants to the Wright County Soil and Water Conservation District | Wright County and Statewide | 45,120 |
| Partnerships for Economic Growth and the Environment | Statewide | 2,000 |
| TOTAL: | | <u>\$ 307,369</u> |

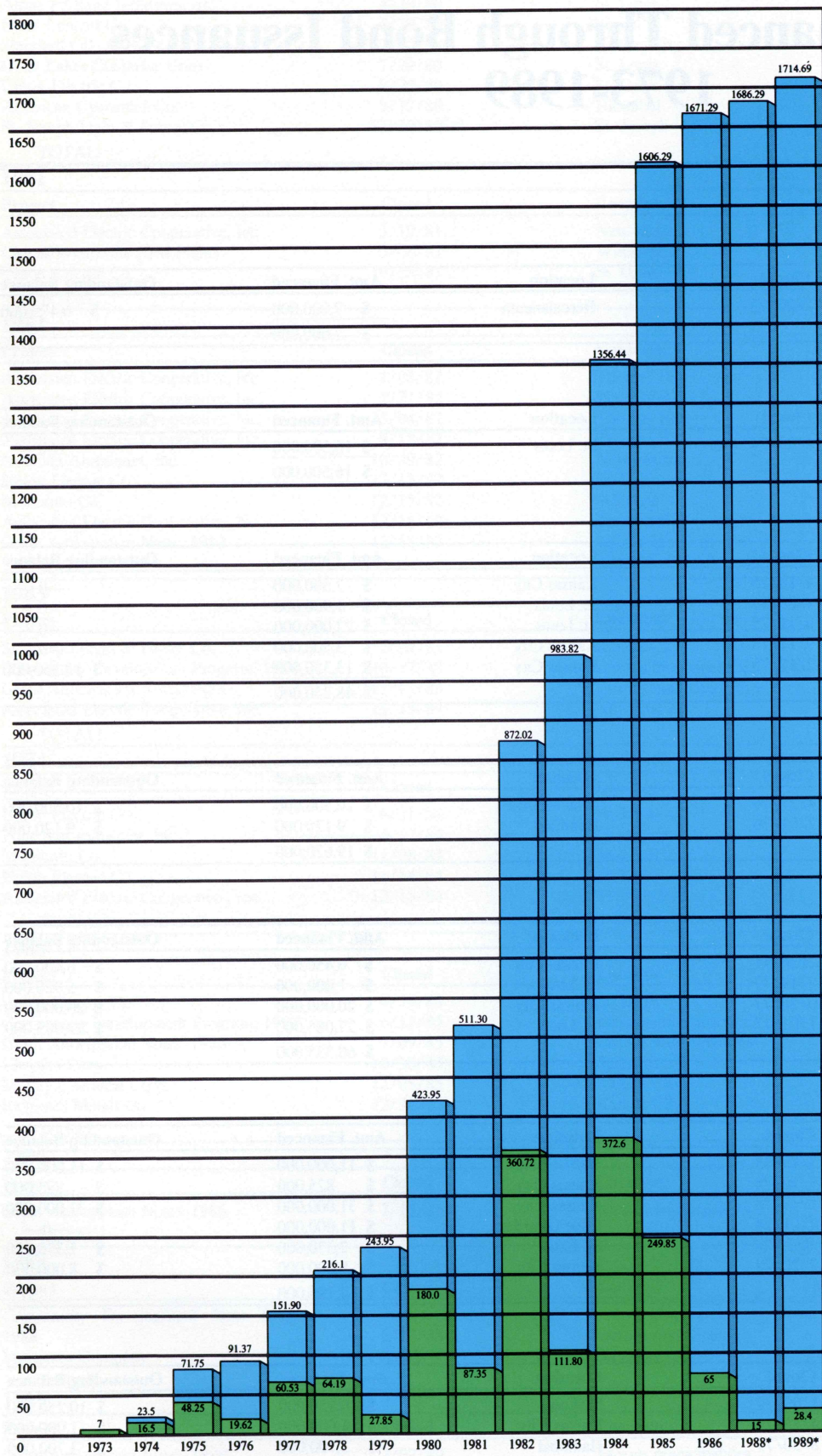
Geographical Locations of Projects Financed

Key

- Bond or Note Financing
- Grants/Funding
- Resource Recovery Assistance
- Statewide Research Projects



(\$ millions)



* Encompasses Fiscal Year July 1, 1988 through June 30, 1989

Summary of Bond Issuances

Key

- Annual Figures
- Cumulative Totals

Projects Financed Through Bond Issuances 1973-1989

1973

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|------------------------|----------|--------------|---------------|---------------------|
| St. Joe Minerals Corp. | 12/20/73 | Herculeaneum | \$ 7,000,000 | \$ 6,470,000 |
| TOTAL: | | | \$ 7,000,000 | |

1974

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|--------------------|---------|-----------|---------------|---------------------|
| Union Electric Co. | 4/25/74 | St. Louis | \$ 16,500,000 | —0— |
| TOTAL: | | | \$ 16,500,000 | |

1975

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|---------------------------------|----------|-------------|---------------|---------------------|
| Mobay Chemical Corp. | 4/18/75 | Kansas City | \$ 7,500,000 | —0— |
| Alpha Portland Industries, Inc. | 4/29/75 | St. Louis | \$ 1,900,000 | —0— |
| Union Electric Co. | 6/11/75 | St. Louis | \$ 22,000,000 | —0— |
| Mobay Chemical Corp. | 9/11/75 | Kansas City | \$ 3,500,000 | —0— |
| Armco Corp. | 12/17/75 | Kansas City | \$ 13,350,000 | \$ 13,350,000 |
| TOTAL: | | | \$ 48,250,000 | |

1976

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|-----------------------|----------|------------|---------------|---------------------|
| Noranda Aluminum Co. | 4/27/76 | New Madrid | \$ 10,500,000 | \$ 10,500,000 |
| American Cyanamid Co. | 12/01/76 | Hannibal | \$ 9,120,000 | \$ 9,120,000 |
| TOTAL: | | | \$ 19,620,000 | |

1977

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|-------------------------------|----------|-------------|---------------|---------------------|
| Standard Oil (AMOCO) Co. | 2/16/77 | Kansas City | \$ 6,450,000 | \$ 6,400,000 |
| Great Lakes Carbon Corp. | 9/14/77 | St. Louis | \$ 7,000,000 | \$ 5,920,000 |
| Kansas City Power & Light Co. | 10/26/77 | Kansas City | \$ 20,000,000 | \$ 20,000,000 |
| Union Electric Co. | 11/01/77 | St. Louis | \$ 27,085,000 | \$ 27,085,000 |
| TOTAL: | | | \$ 60,535,000 | |

1978

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|-------------------------------|----------|----------------|---------------|---------------------|
| Mobay Chemical Corp. | 3/15/78 | Kansas City | \$ 11,000,000 | \$ 11,000,000 |
| Mobay Chemical Corp. | 5/10/78 | Kansas City | \$ 825,000 | \$ 825,000 |
| Kansas City Power & Light Co. | 7/19/78 | Kansas City | \$ 31,000,000 | \$ 31,000,000 |
| Gulf+Western Industries, Inc. | 8/01/78 | Cape Girardeau | \$ 11,000,000 | —0— |
| Monsanto Co. | 8/3/78 | St. Louis | \$ 2,370,000 | \$ 2,370,000 |
| Empire District Electric Co. | 12/20/78 | Kansas City | \$ 8,000,000 | \$ 8,000,000 |
| TOTAL: | | | \$ 64,195,000 | |

1979

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|------------------------------|---------|-------------|---------------|---------------------|
| Monsanto Co. | 1/09/79 | St. Louis | \$ 10,250,000 | \$ 10,250,000 |
| Mobay Chemical Corp. | 4/18/79 | Kansas City | \$ 11,000,000 | \$ 11,000,000 |
| American Cyanamid Co. | 8/30/79 | Hannibal | \$ 3,700,000 | \$ 3,700,000 |
| Monsanto Co. (Queeney Plant) | 9/06/79 | St. Louis | \$ 2,900,000 | \$ 2,900,000 |
| TOTAL: | | | \$ 27,850,000 | |

1980

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|---------------------------------------|----------|-------------|---------------|---------------------|
| Associated Electric Cooperative, Inc. | 1/20/80 | Thomas Hill | \$ 95,000,000 | —0— |
| Alpha Portland Industries, Inc. | 4/29/80 | St. Louis | \$ 1,450,000 | —0— |
| River Cement Co. | 5/29/80 | Festus | \$ 5,700,000 | —0— |
| Standard Oil (AMOCO) Co. | 7/22/80 | Kansas City | \$ 8,300,000 | \$ 8,300,000 |
| Great Lakes Container Corp. | 7/24/80 | St. Louis | \$ 800,000 | \$ 580,000 |
| Union Electric Co. | 8/20/80 | St. Louis | \$ 60,000,000 | \$ 60,000,000 |
| American Cyanamid Co. | 9/17/80 | Hannibal | \$ 3,450,000 | \$ 3,450,000 |
| St. Joseph Light & Power Co. | 12/30/80 | St. Joseph | \$ 5,300,000 | —0— |
| TOTAL: | | | \$180,000,000 | |

1981

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|---------------------------------------|----------|------------|---------------|---------------------|
| Associated Electric Cooperative, Inc. | 3/19/81 | New Madrid | \$ 36,000,000 | —0— |
| City of Wentzville (GM Plant) | 5/08/81 | Wentzville | \$ 6,350,000 | \$ 6,350,000 |
| Union Electric Co. | 10/08/81 | St. Louis | \$ 45,000,000 | —0— |
| TOTAL: | | | \$ 87,350,000 | |

1982

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|---------------------------------------|----------|-------------------|---------------|---------------------|
| Associated Electric Cooperative, Inc. | 1/02/82 | Thomas Hill | \$ 71,000,000 | —0— |
| Associated Electric Cooperative, Inc. | 2/21/82 | Thomas Hill | \$ 50,000,000 | —0— |
| Associated Electric Cooperative, Inc. | 5/04/82 | Thomas Hill | \$ 73,000,000 | —0— |
| Associated Electric Cooperative, Inc. | 8/18/82 | Thomas Hill | \$ 12,000,000 | —0— |
| Noranda Aluminum, Inc. | 10/29/82 | New Madrid | \$ 45,000,000 | \$ 45,000,000 |
| Union Electric Co. | 12/15/82 | St. Louis | \$ 20,000,000 | —0— |
| Monsanto Co. | 12/15/82 | St. Louis | \$ 9,325,000 | —0— |
| Associated Electric Cooperative, Inc. | 12/16/82 | Thomas Hill | \$ 55,900,000 | —0— |
| Grant Anticipation Notes, 1982 | 12/16/82 | various locations | \$ 24,500,000 | —0— |
| TOTAL: | | | \$360,725,000 | |

1983

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|---------------------------------------|----------|------------------------|---------------|---------------------|
| St. Joseph Light & Power Co. | 2/24/83 | Kansas City | \$ 5,600,000 | \$ 5,600,000 |
| Community Development Program, 1983 | 10/27/83 | various municipalities | \$ 18,000,000 | —0— |
| Grant Anticipation Notes, 1983 | 11/17/83 | various municipalities | \$ 44,100,000 | —0— |
| Associated Electric Cooperative, Inc. | 11/15/84 | New Madrid | \$ 44,100,000 | \$ 44,100,000 |
| TOTAL: | | | \$111,800,000 | |

1984

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|---------------------------------------|----------|----------------|---------------|---------------------|
| Union Electric Co. | 6/21/84 | St. Louis | \$160,000,000 | \$160,000,000 |
| Lone Star Industries, Inc. | 7/17/84 | Cape Girardeau | \$ 9,100,000 | \$ 9,100,000 |
| Monsanto Co. | 11/08/84 | St. Louis | \$ 2,890,000 | \$ 2,890,000 |
| Union Electric Co. | 11/14/84 | St. Louis | \$ 47,500,000 | \$ 47,500,000 |
| Associated Electric Cooperative, Inc. | 12/15/84 | Thomas Hill | \$153,125,000 | \$149,120,000 |
| TOTAL: | | | \$111,800,000 | |

1985

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|-------------------------------------|----------|------------------------|---------------|---------------------|
| Union Electric Co. | 4/24/85 | St. Louis | \$126,500,000 | \$126,500,000 |
| Community Development Program, 1985 | 6/11/85 | various municipalities | \$ 15,000,000 | —0— |
| Grant Anticipation Notes, 1985 | 7/09/85 | various municipalities | \$ 90,000,000 | —0— |
| Chrysler Corp. | 10/30/85 | St. Louis | \$ 16,000,000 | \$ 16,000,000 |
| Mobay Chemical Corp. | 12/05/85 | Kansas City | \$ 1,600,000 | \$ 1,600,000 |
| Reynolds Metals Co. | 12/31/85 | Kansas City | \$ 750,000 | \$ 750,000 |
| TOTAL: | | | \$249,850,000 | |

1986

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|--------------------------------|---------|------------------------|---------------|---------------------|
| Grant Anticipation Notes, 1986 | 7/15/86 | various municipalities | \$ 65,000,000 | —0— |
| TOTAL: | | | \$ 65,000,000 | |

1988

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|--|----------|------------------------|---------------|---------------------|
| Community Development Note Program, 1988 | 6/15/88 | various municipalities | \$ 15,000,000 | \$ 15,000,000 |
| Monsanto Company | 11/02/88 | St. Louis | \$ 7,950,000 | \$ 7,950,000 |
| TOTAL: | | | \$ 22,950,000 | |

1989

| Project | Closed | Location | Amt. Financed | Outstanding Balance |
|--------------------------------|---------|------------------------|---------------|---------------------|
| Grant Anticipation Notes, 1989 | 3/02/89 | various municipalities | \$ 14,850,000 | \$ 14,850,000 |
| St. Joseph Light & Power Co. | 7/21/89 | St. Joseph | \$ 5,600,000 | \$ 5,600,000 |
| TOTAL: | | | \$ 20,450,000 | |

EIERA's New Home has Historic Background



EIERA's office building is located in the Missouri State Capitol Historic District.

The new home of the Environmental Improvement and Energy Resources Authority (EIERA) is housed in an 110-year-old building, about 100 yards south of the Governor's Mansion in downtown Jefferson City.

On Feb. 1, 1989, the EIERA moved from the Jefferson State Office Building to 225 Madison St. The staff occupies the second floor of an attractive two-story building.

"The staff has increased in the past two years and the Authority has accepted more responsibility. We needed additional space and these offices meet our requirements," said Steve Mahfood, EIERA director. The new space includes a reception area, four offices, a conference room, a kitchen, two restrooms, and a storeroom. Pointing to the rear door, Mahfood said in a humorous tone, "We also have a sun deck if you choose to go out on the roof."

The Madison Street structure was built in 1880 by Hugo Monnig. Monnig owned a music store on the first floor and sold pianos and other musical instruments; he lived on the second floor. Since that time, the first floor had been rented to

several businesses including a clothing store and two financial institutions. The second floor had been occupied by state organizations and trade associations.

In 1979, Dr. Brian M. Pope, a Jefferson City dentist, purchased the historic structure. In 1980, he began a year-long renovation of the building, which is located in the Missouri State Capitol Historic District. The district is listed on the National Register of Historic Places and includes more than 10 blocks in the downtown area.

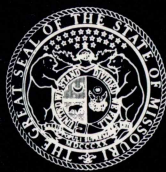
One of the unique features of the building is its second floor window panes. "Four of the eight panes are the original hand-made glass," said Pope, who has enhanced the appearance of several buildings in downtown Jefferson City through renovation projects. "Some of the original panes were broken and the glass was replaced."

Mahfood noted that working in an old, historic building adds a nice touch to the office environment. Then he smiled and said, "But you really have to be careful when you're working around here. You don't want to bump into anything and break it, particularly those windows."



*Even at sunset, the Lake of the Ozarks enhances its reputation as a scenic attraction.
This area of the lake is near Business 54 and Missouri Route HH.*

State Environmental Improvement and Energy Resources Authority



Missouri Department of Natural Resources